

## ABSTRACT OF THE DISCLOSURE

A network operating the Internet Control Message Protocol (ICMP) Router Discovery Protocol (IRDP) on an Internet protocol (IP) based network on a mobile platform which supports automatic failover of the network's default router to one or more onboard back-up routers. A security safeguard is also implemented by including packet filters at each one of a plurality of seat electronics box (SEB) stations on the mobile platform which allows ICMP Type 9 and Type 10 packets transmitted on the network to be blocked. The filters further allow each SEB to accept only advertisements from pre-designated addresses of routers operating on the network.